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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,562	10/30/2003	Michael J. Neumann	10030590-1	1116
7590 02/13/2006			EXAMINER	
AGILENT TECHNOLOGIES, INC. Legal Department, DL429 Intellectual Property Administration P.O. Box 7599			NGUYEN, TUYEN T	
			ART UNIT	PAPER NUMBER
			2832	
Loveland, CO 80537-0599			DATE MAILED: 02/13/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	76
			70
Office Action Summary	10/698,562	NEUMANN ET AL.	
· · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit	
The MAILING DATE of this communication ap	TUYEN T. NGUYEN	2832	
Period for Reply	pears on the cover office with a	ic correspondence address =	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	ION. be timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29 N	lovember 2005.		
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allowa	•	•	
closed in accordance with the practice under it	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1 and 3-17 is/are pending in the appl 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 4,5 and 12 is/are allowed. 6) ☐ Claim(s) 1,3,6-11 and 13-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	·	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the Examine and the specific product of the specif	cepted or b) objected to by the drawing(s) be held in abeyance. Ition is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic crity documents have been reco u (PCT Rule 17.2(a)).	cation No eived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 6-11 and 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hopfer [US 3,812,438] in view of Brickford et al. [US 6,084,485].

Hopfer discloses an inductor [figure 2] comprising:

- a coil form [58] having a conical portion with a tip;
- an integrated contact [58] disposed on the tip of the coil form; and
- an inductor coil [62] wound around the coil form and electrically coupled to the integrated contact.

Hopfer discloses the instant claimed invention except for the specific material of the coil form.

Brickford et al. discloses an inductor [figures 1A-1B] comprising:

- a poly-iron conical coil form [16A]; and
- a conductor tip [12/13] at the end of the coninal coil form.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use poly-iron for the coil form of Hopfer, as suggested by Brickford et al., for the purpose of controlling the magnetic flux.

Application/Control Number: 10/698,562 Page 3

Art Unit: 2832

Regarding claim 3, Hopfer discloses the integrated contact comprises a plated tip portion

of the coil form.

Regarding claim 10, Hopfer inherently discloses the integrated contact has a radius not

greater than 250 microns. The specific hemispherical radius of the integrated contact would

have been an obvious design consideration for the purpose of increasing contact area.

Regarding claims 7, 11 and 16, it would have been obvious to solder the end of the

inductor coil to the integrated contact for the purpose of providing strength to the electrical

connection. The specific plating method for the contact would have been an obvious design

consideration for the purpose providing connection for the coil.

Regarding claims 6, 13 and 16, it would have been an obvious design consideration to

include groove in the plated tip integrated contact, instead on the coil form, for the purpose of

supporting end portion of the inductor coil and providing mechanical strength to the connections.

Regarding claims 8 and 14, Hopfer inherently discloses the inductor coil wound not more

than one turn around the plated portion of the coil form.

Response to Arguments

Applicant's arguments with respect to claims 1, 3, 6-11 and 13-17 have been considered

but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 4-5 and 12 are allowed.

Conclusion

Application/Control Number: 10/698,562

Art Unit: 2832

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996.

The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Tuya Ngaya

Page 4